

North Ops Fire Potential Outlook July to October

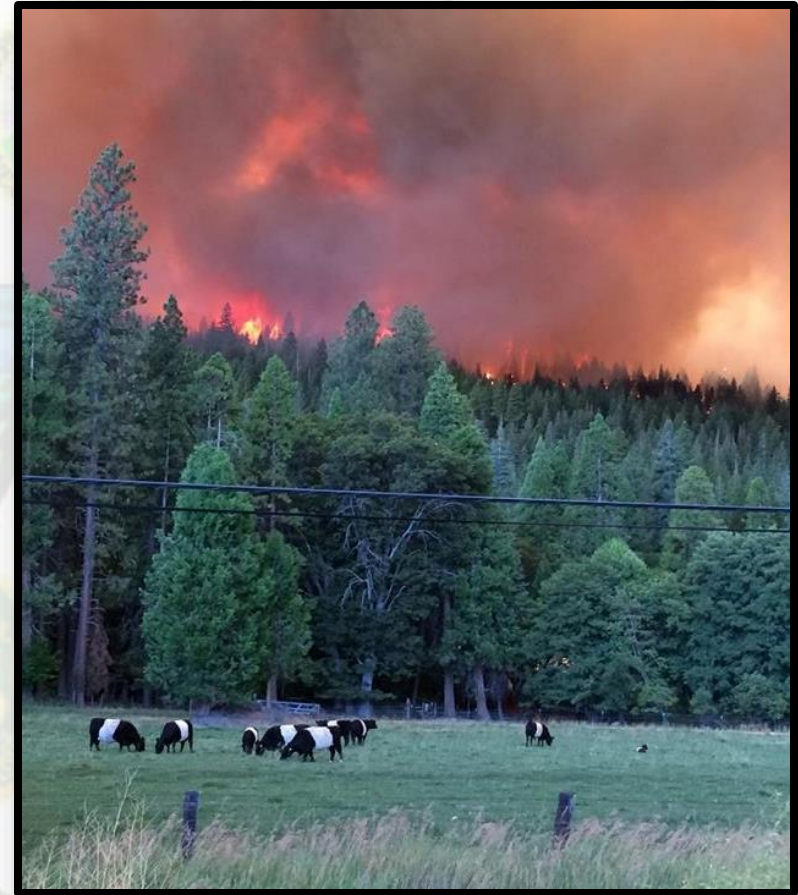
➤ Current & Past Situation

- Weather

- Fuels

➤ Weather Outlook

➤ Future Fire Potential



Eiler Fire firewhirl, LNF 2015

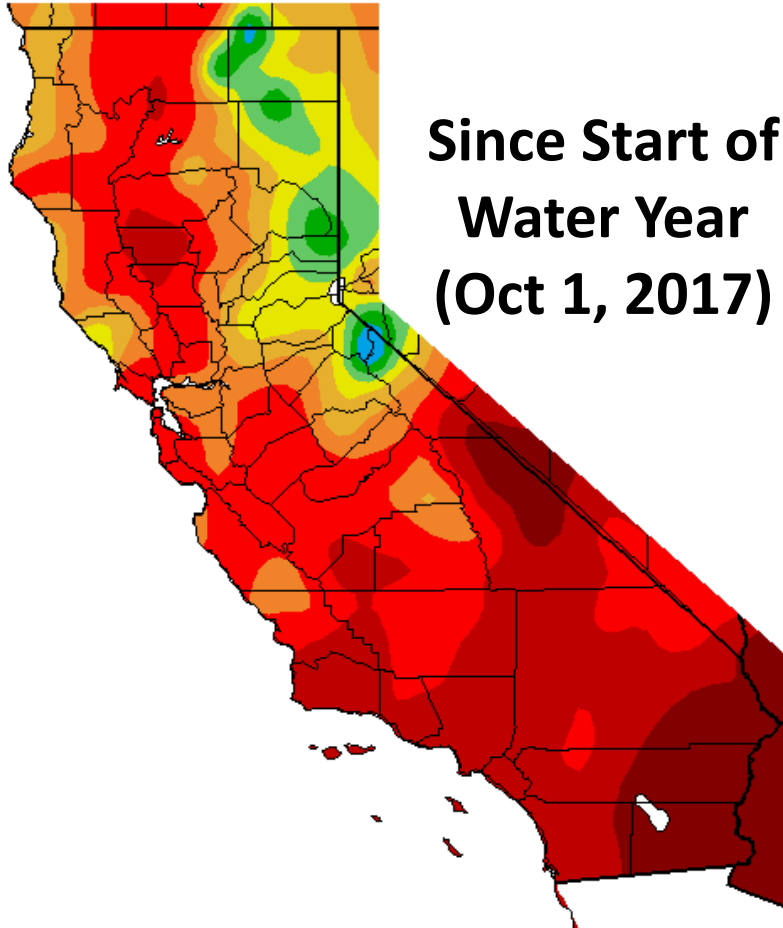
Current Situation

Past and Recent Weather and
the Current State of Fuels

Current WX - Percent of Normal Precipitation

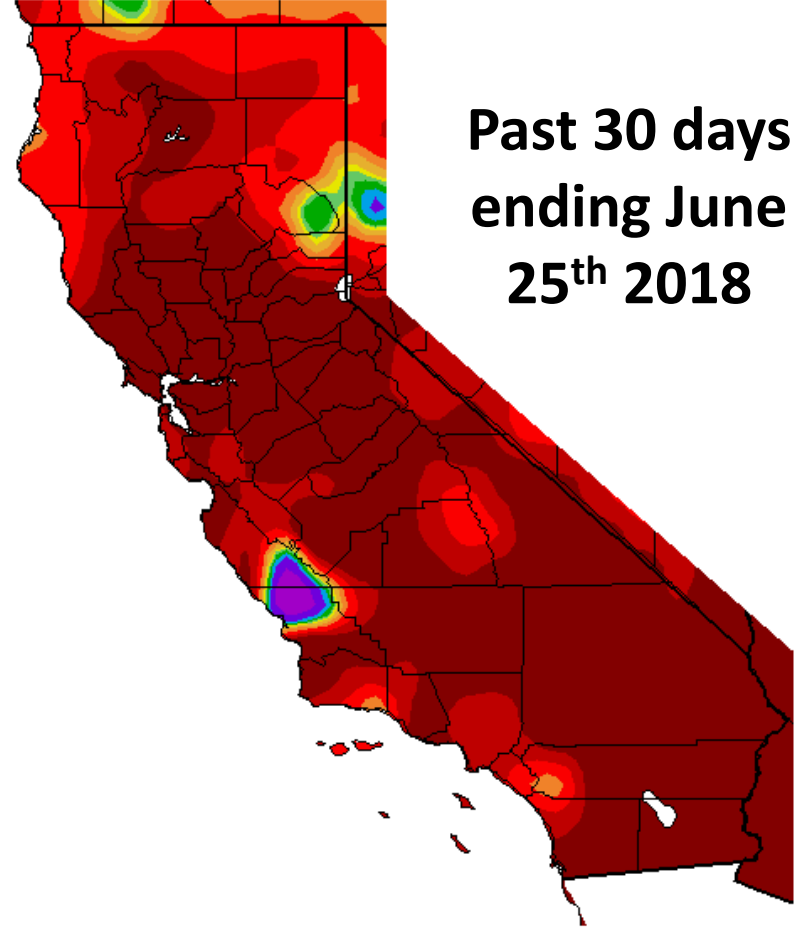
Percent of Average Precipitation (%)
10/1/2017 – 6/25/2018

**Since Start of
Water Year
(Oct 1, 2017)**



Percent of Average Precipitation (%)
5/27/2018 – 6/25/2018

**Past 30 days
ending June
25th 2018**



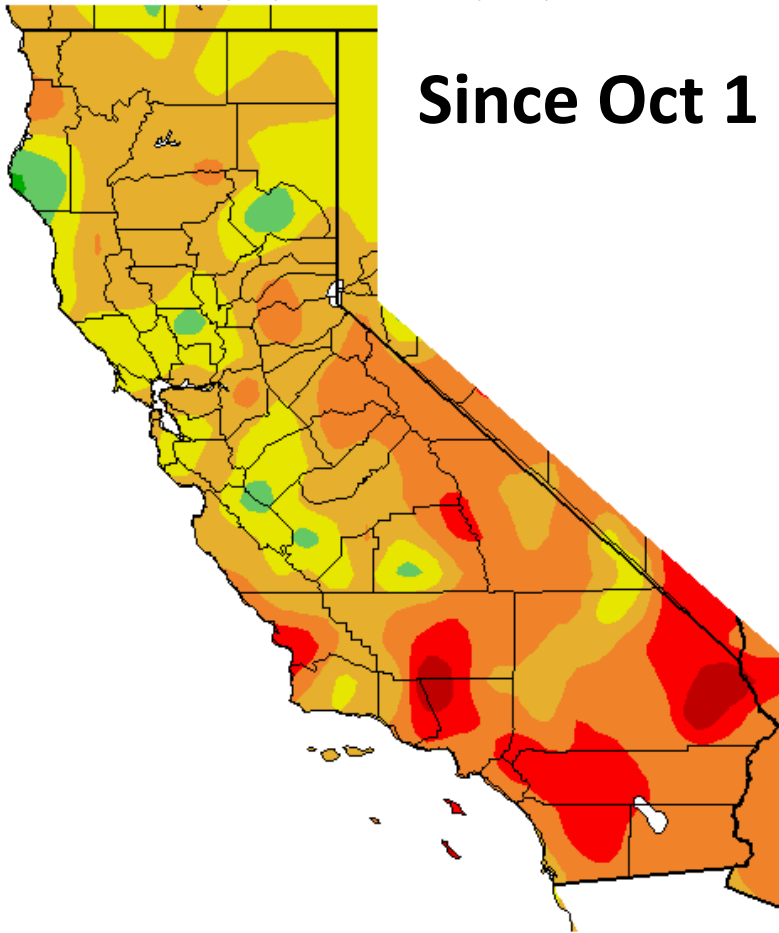
Generated 6/26/2018 at WRCC using provisional data.
NOAA Regional Climate Centers

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NOAA Regional Climate Centers

Current WX - Average Temp Departure from Normal

Ave. Temperature dep from Ave (deg F)
10/1/2017 – 6/25/2018

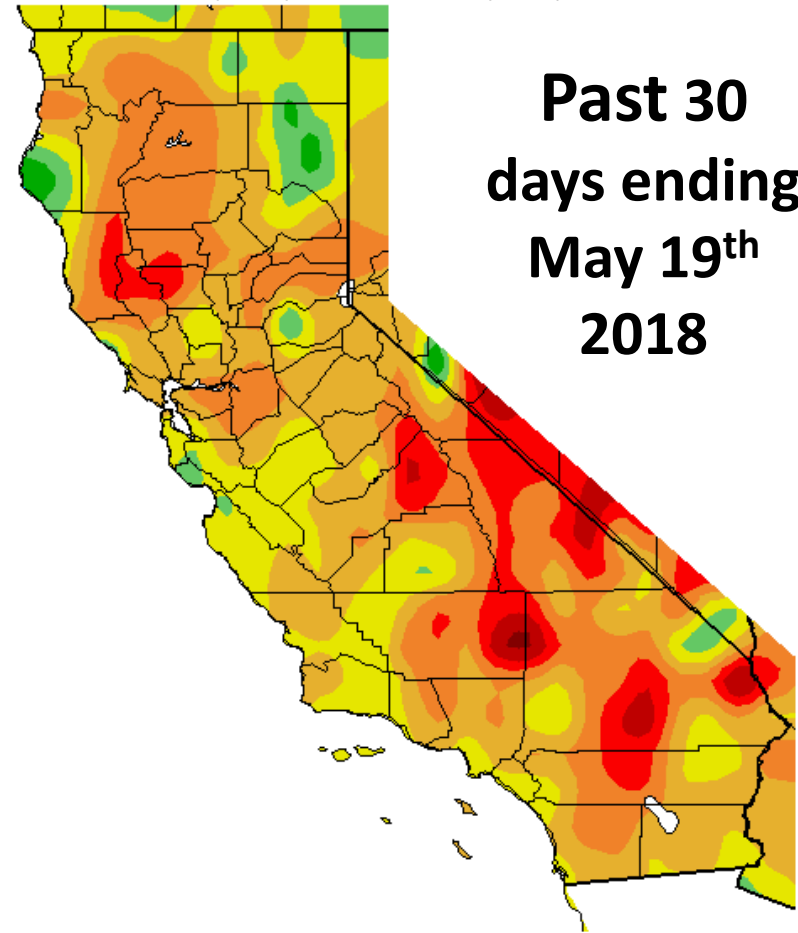
Since Oct 1



Generated 6/26/2018 at WRCC using provisional data.
NOAA Regional Climate Centers

Ave. Temperature dep from Ave (deg F)
5/27/2018 – 6/25/2018

**Past 30
days ending
May 19th
2018**

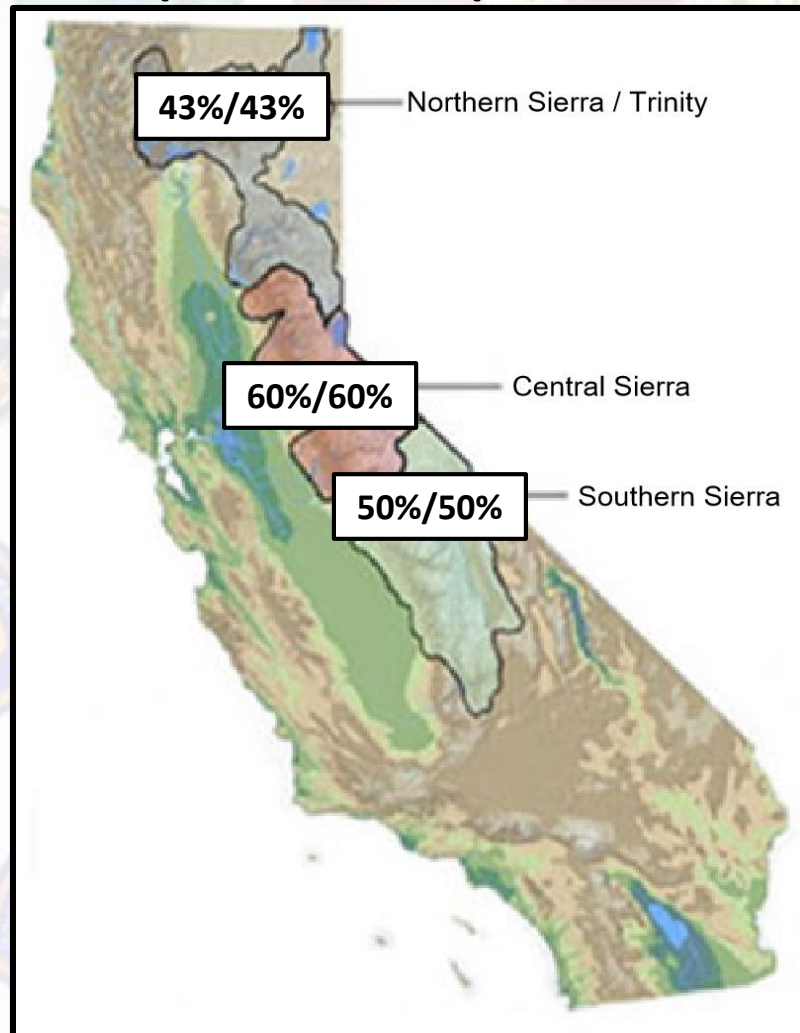


Generated 6/26/2018 at WRCC using provisional data.
NOAA Regional Climate Centers

Snow Water Content

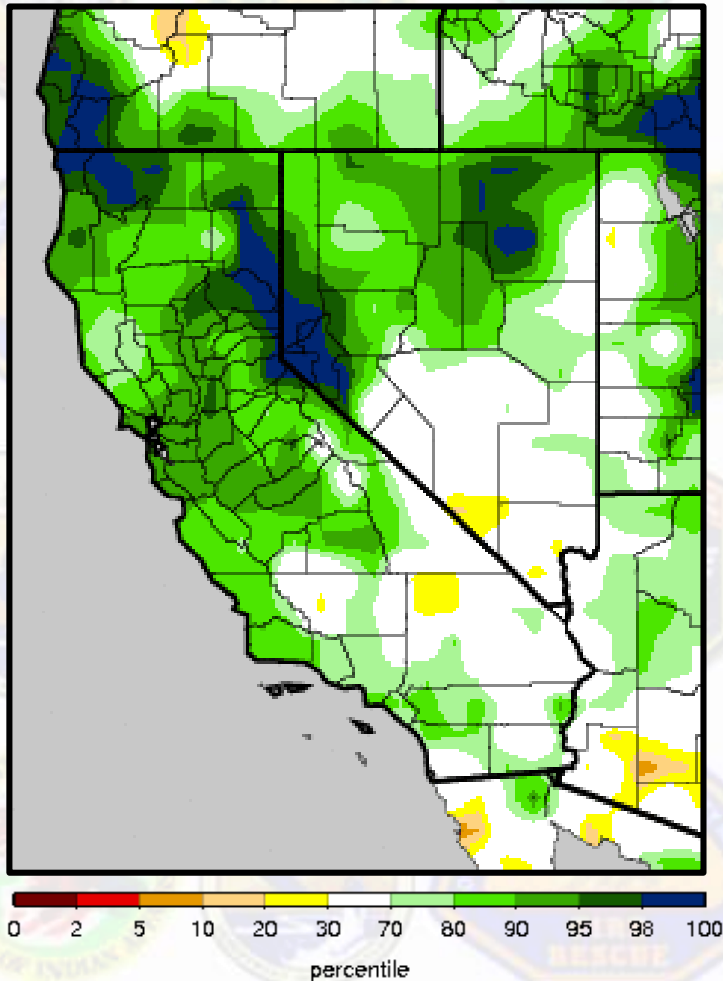
Peak Period

% Apr 1 Ave / % Apr 2 Normal



Fuels - Abundant Fine Fuel Carryover

Soil Moisture April 1, 2017



Spring 2017



Summer/Fall 2017 –
Limited Flattening



Near to Above normal green-up



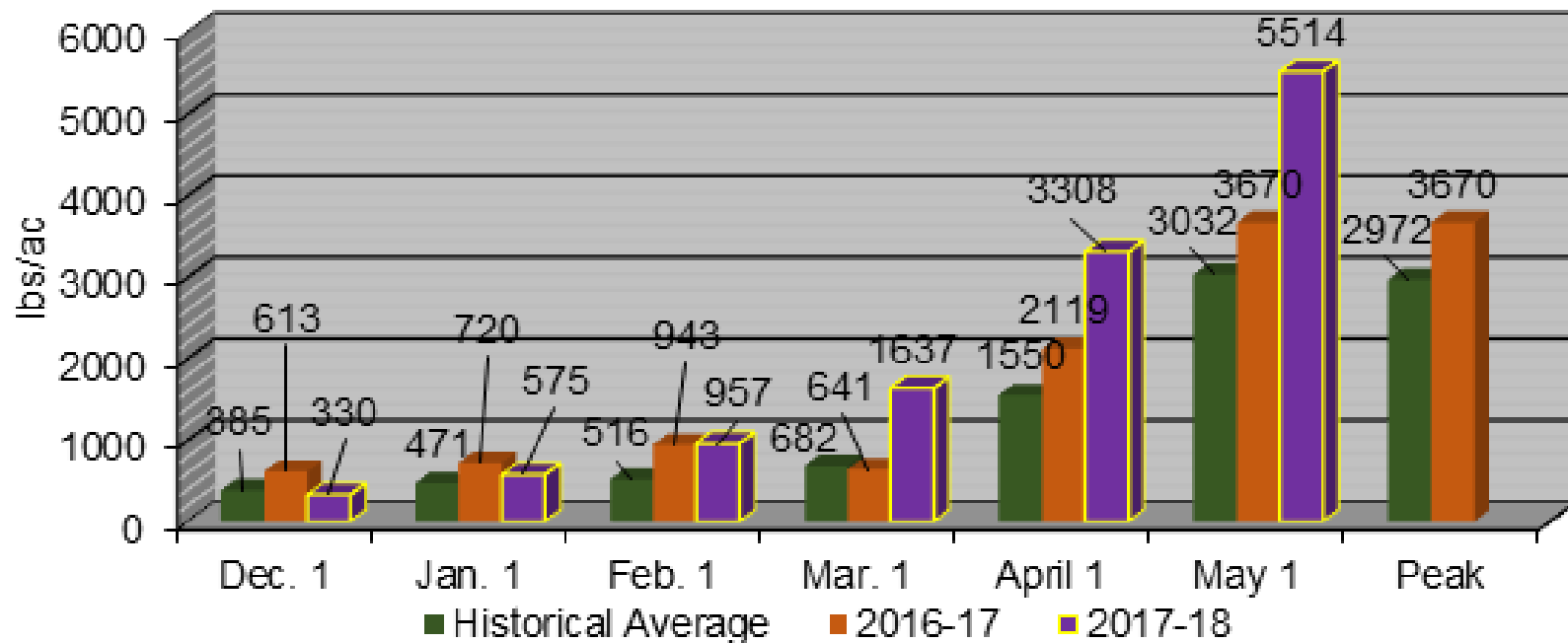
South Cow Creek



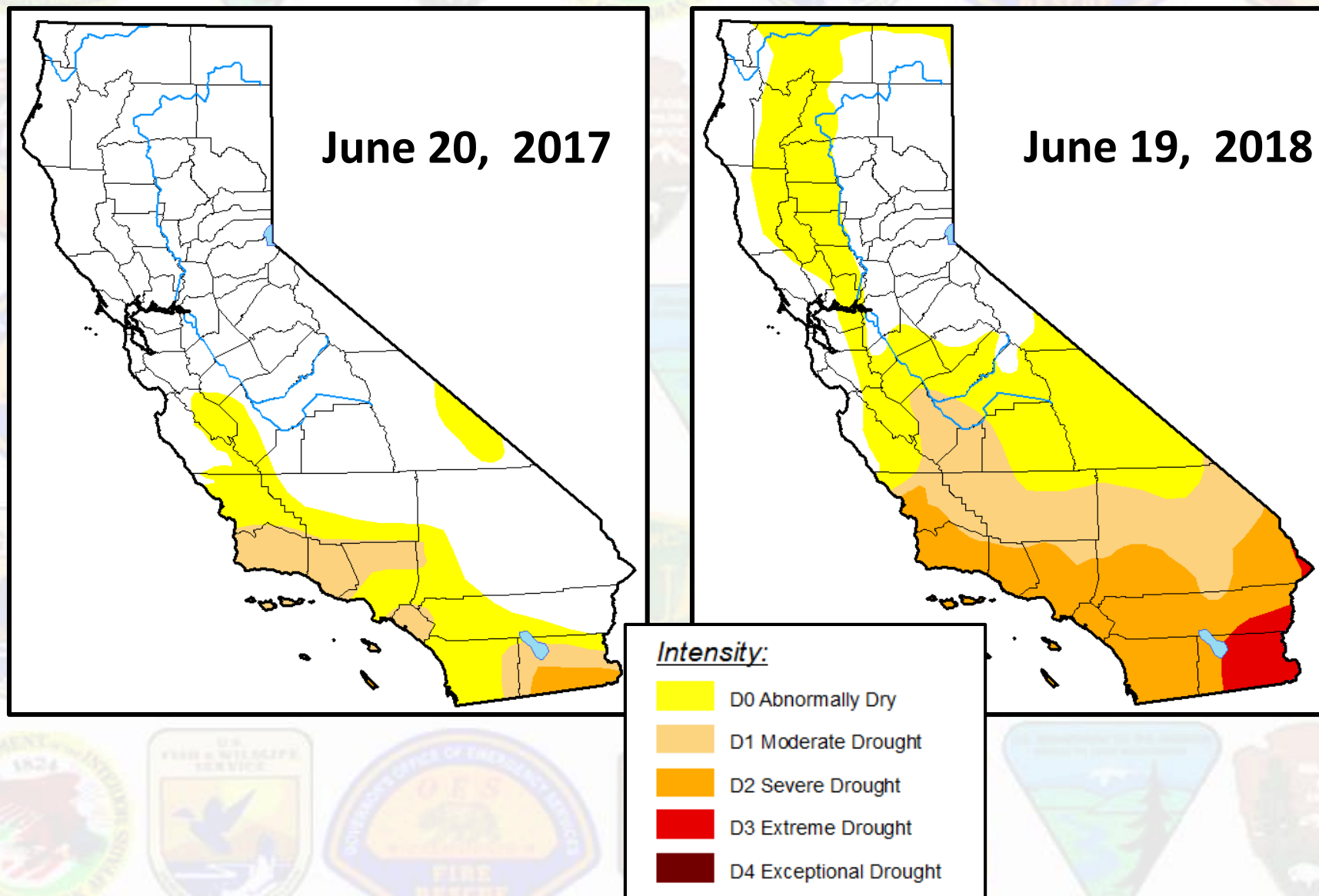
Sierra Foothill Research Station

Browns Valley

SFREC Forage Growth by Month - Historical Avg. vs 2016-17, 2017-18

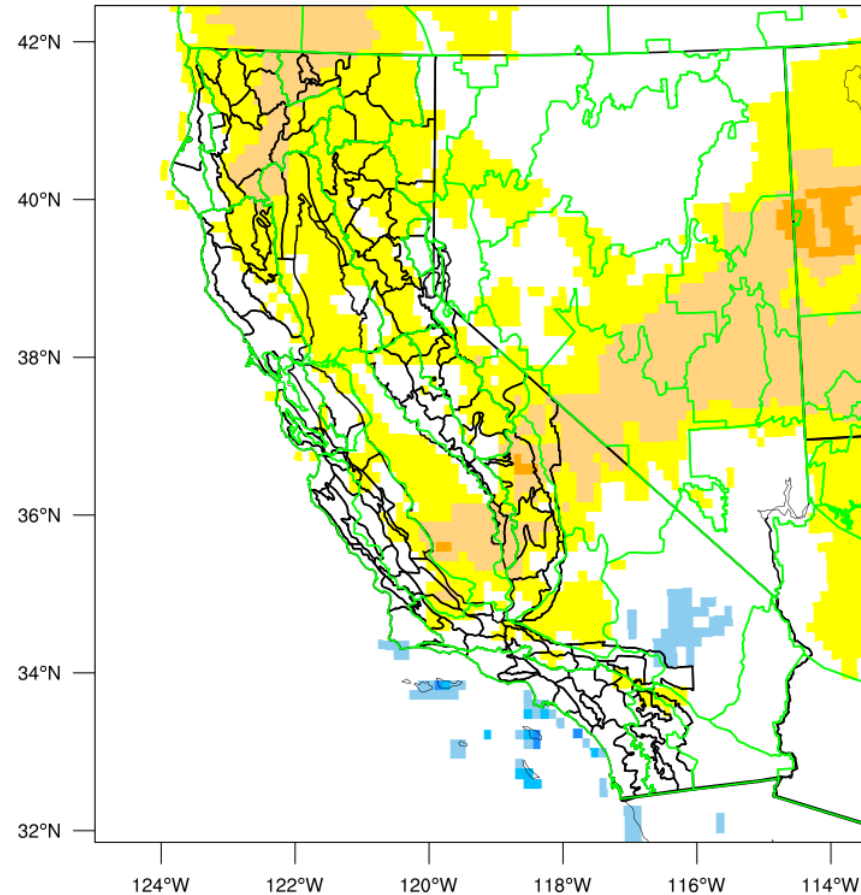


Current WX -Drought Monitor



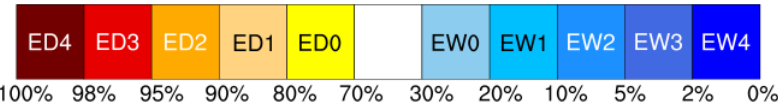
Evaporative Demand Drought Index

2-month EDDI categories for June 21, 2018



Drought categories

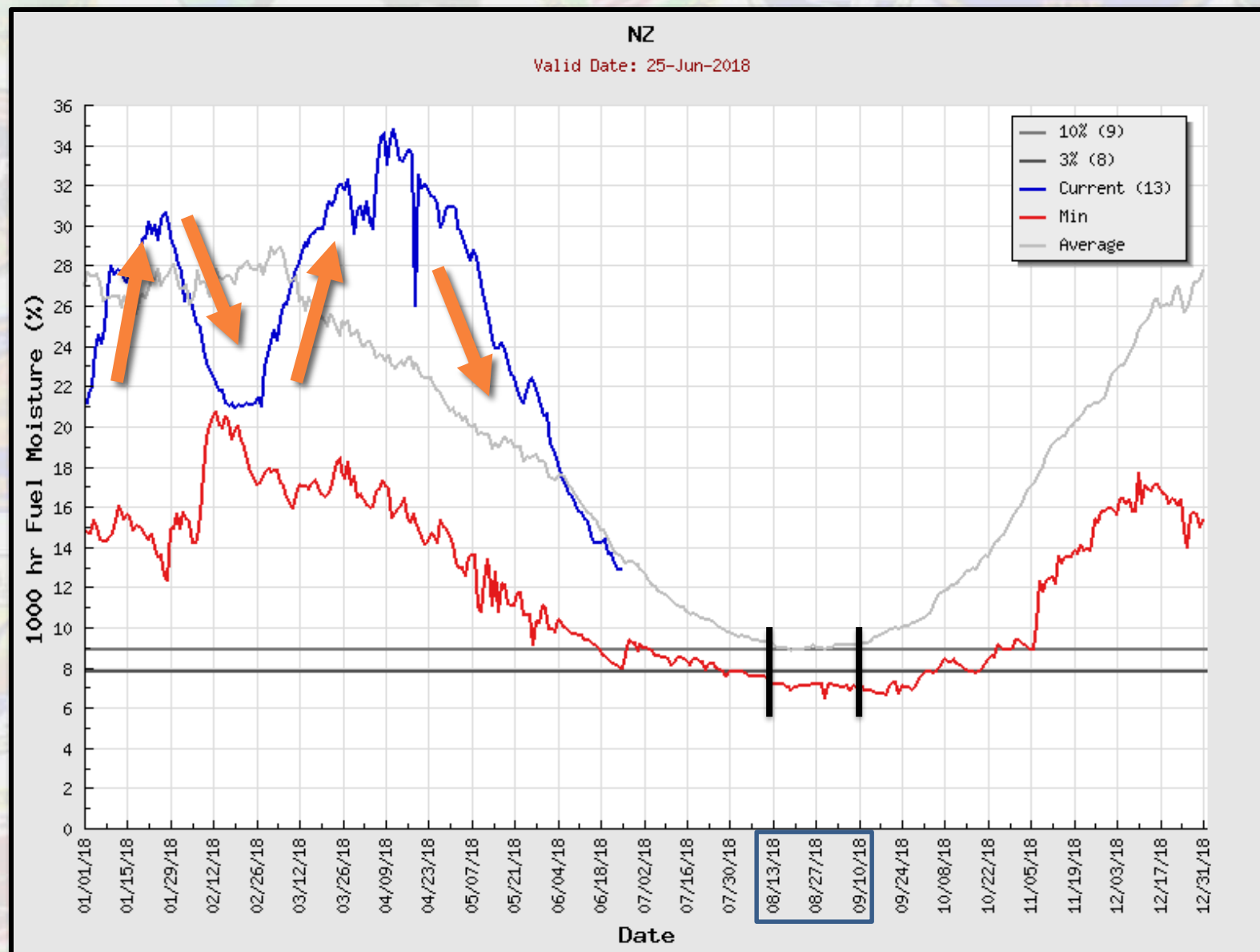
Wetness categories



(EDDI-percentile category breaks: 100% = driest; 0% = wettest)

Generated by NOAA/ESRL/Physical Sciences Division

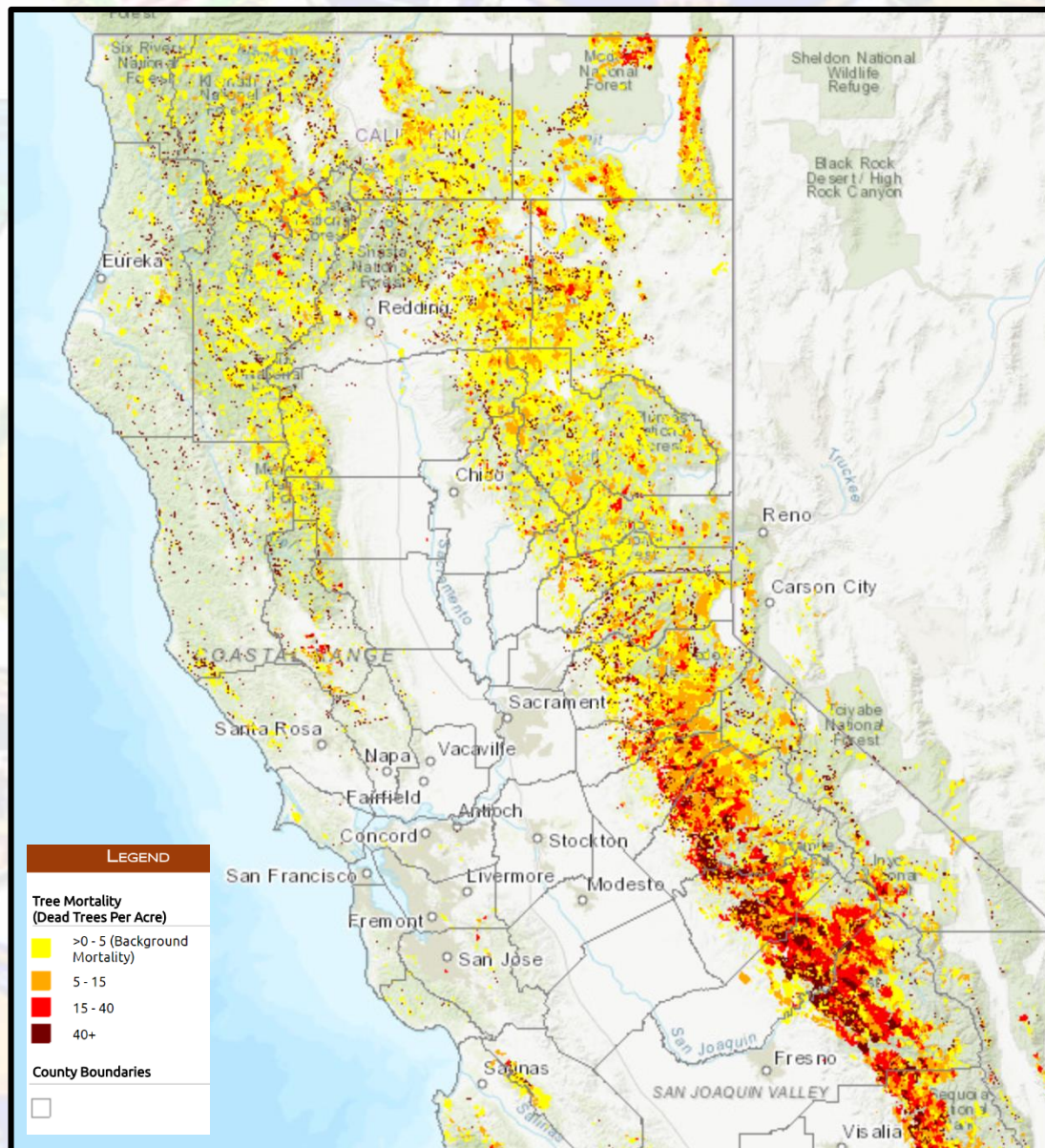
Current WX – North Zone 1000 hr FM



Continued Tree Mortality Concerns

MAR 2018

California Tree Mortality Task Force Map



Weather Outlook

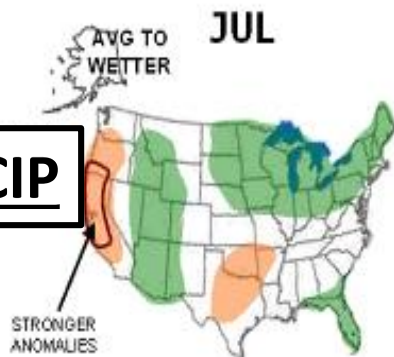
Ingredients and Projections

July-October Predictive Service's Outlook

TEMP



PRECIP



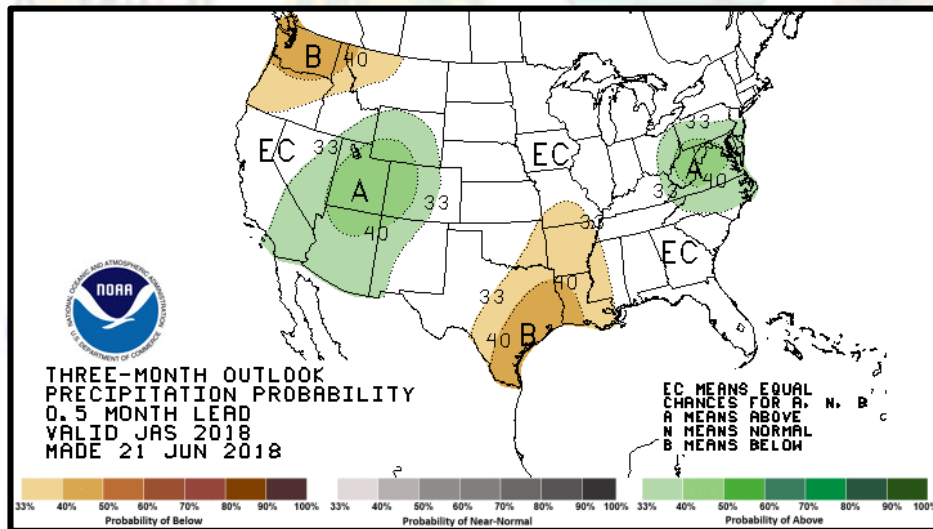
← PEAKING TROPICAL SEASON ACTIVITY →

ATLANTIC TROPICAL ACTIVITY WOULD NECESSARILY ALTER THE TEMP AND ESPECIALLY THE PRECIP ANOMALY OUTLOOKS JUN THROUGH OCTOBER FOR THE GULF/ATLANTIC STATE AREAS.

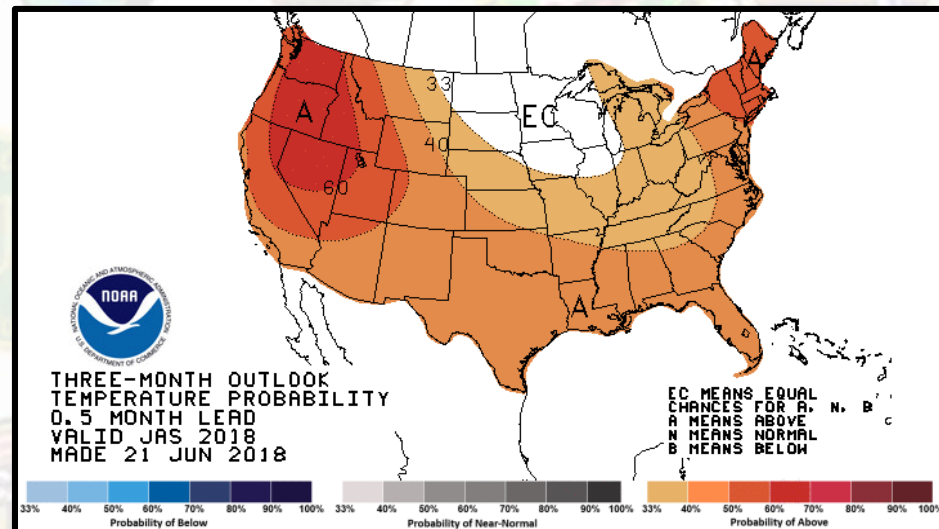


July to September Outlook – CPC

Precipitation Anomaly

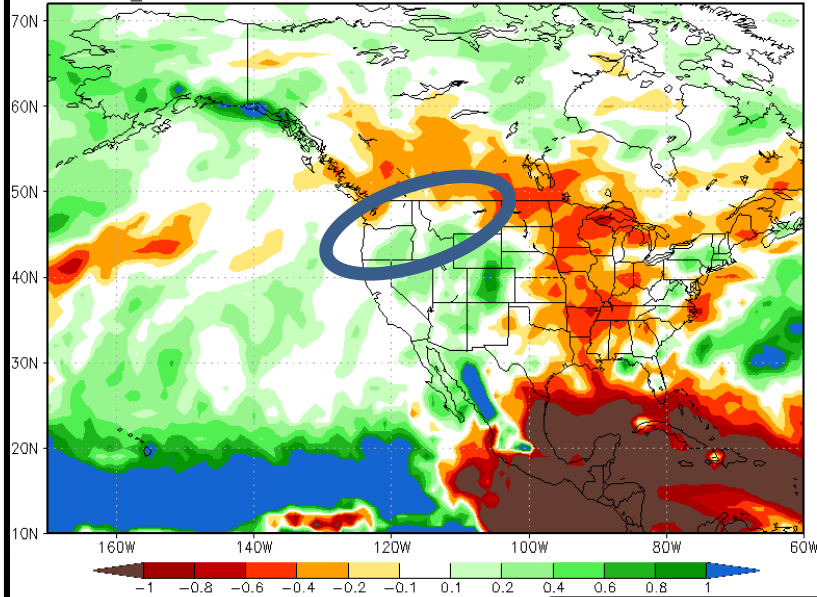


Temperature Anomaly

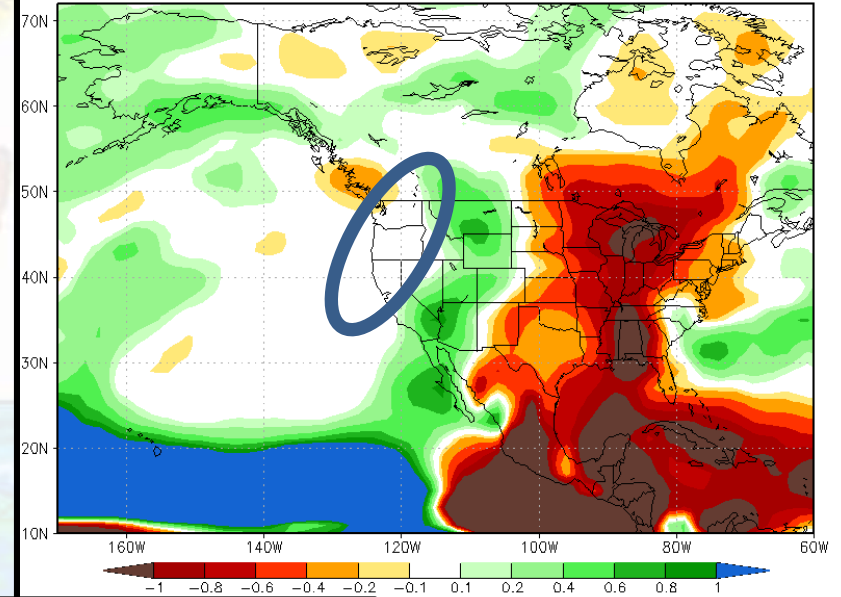


July – September Dynamic Climate Model

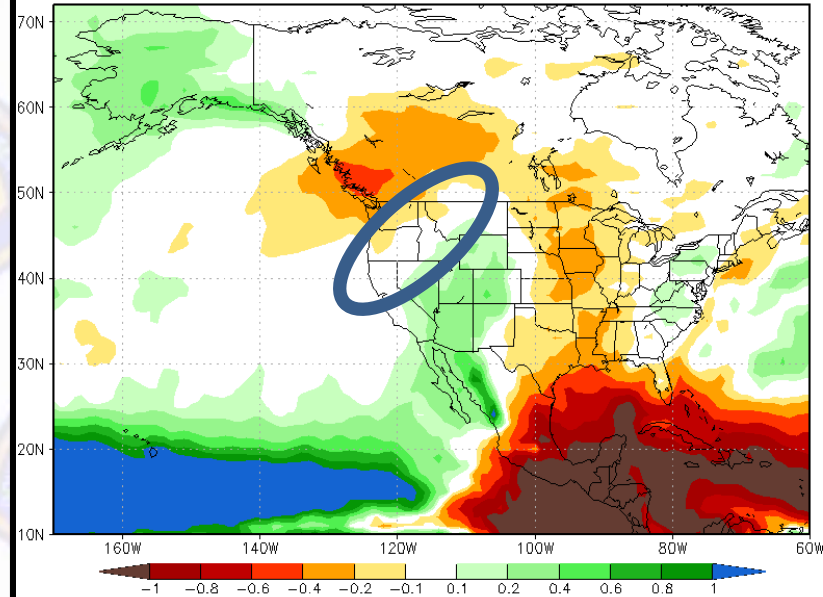
GFDL FLOR Forecast of Prec. rate Anom IC=201806 for Lead 1 2018JAS



GFDL Forecast of Prec. rate Anom IC=201806 for Lead 1 2018JAS



NMME Forecast of Prec. rate Anom IC=201806 for Lead 1 2018JAS



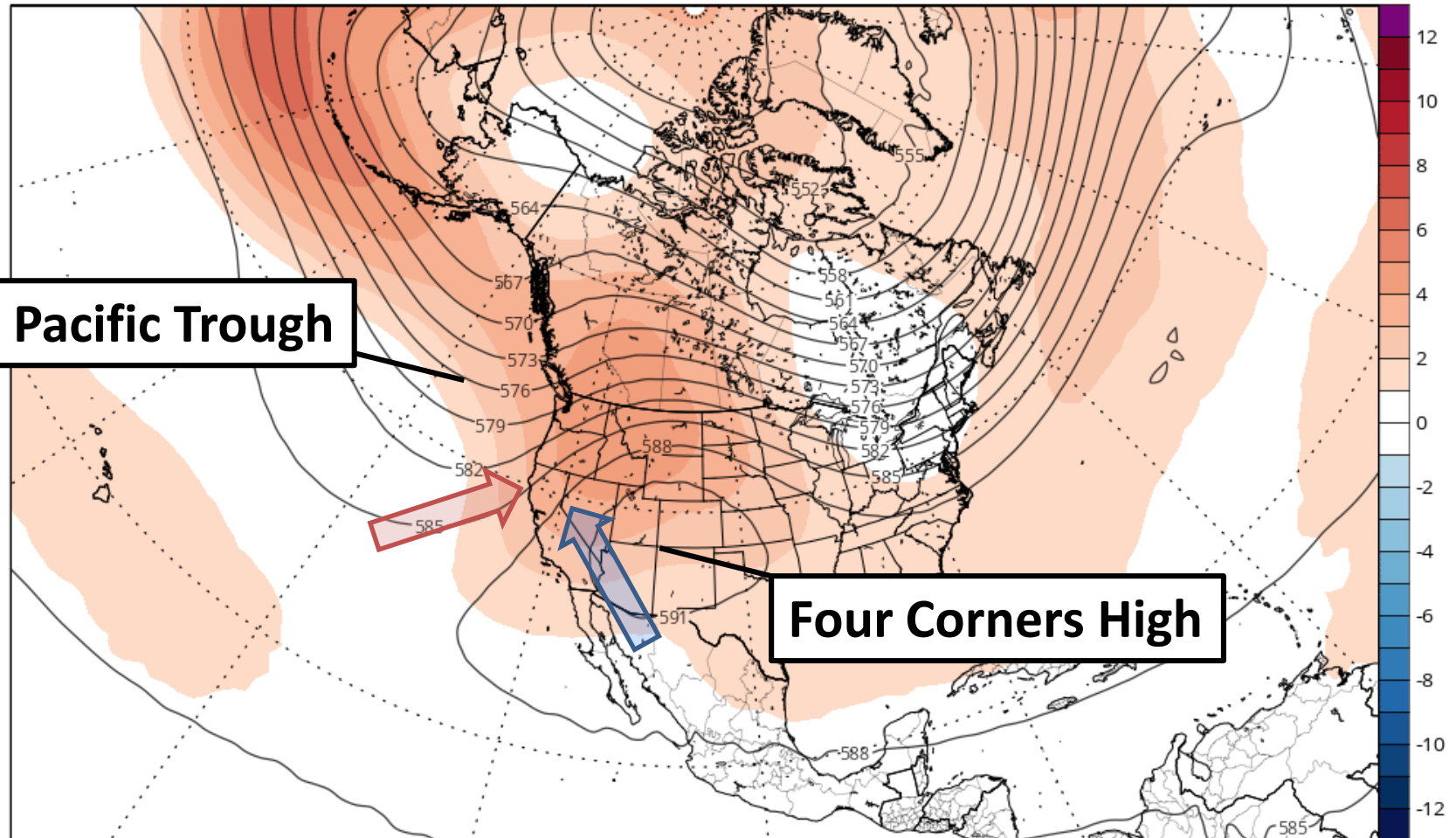
Dominant Weather Pattern This Summer

CFSv2 Mean 500mb GPH & Anomaly (dam) from 00z18Jul2018 to 00z25Jul2018 (Days 22-28)

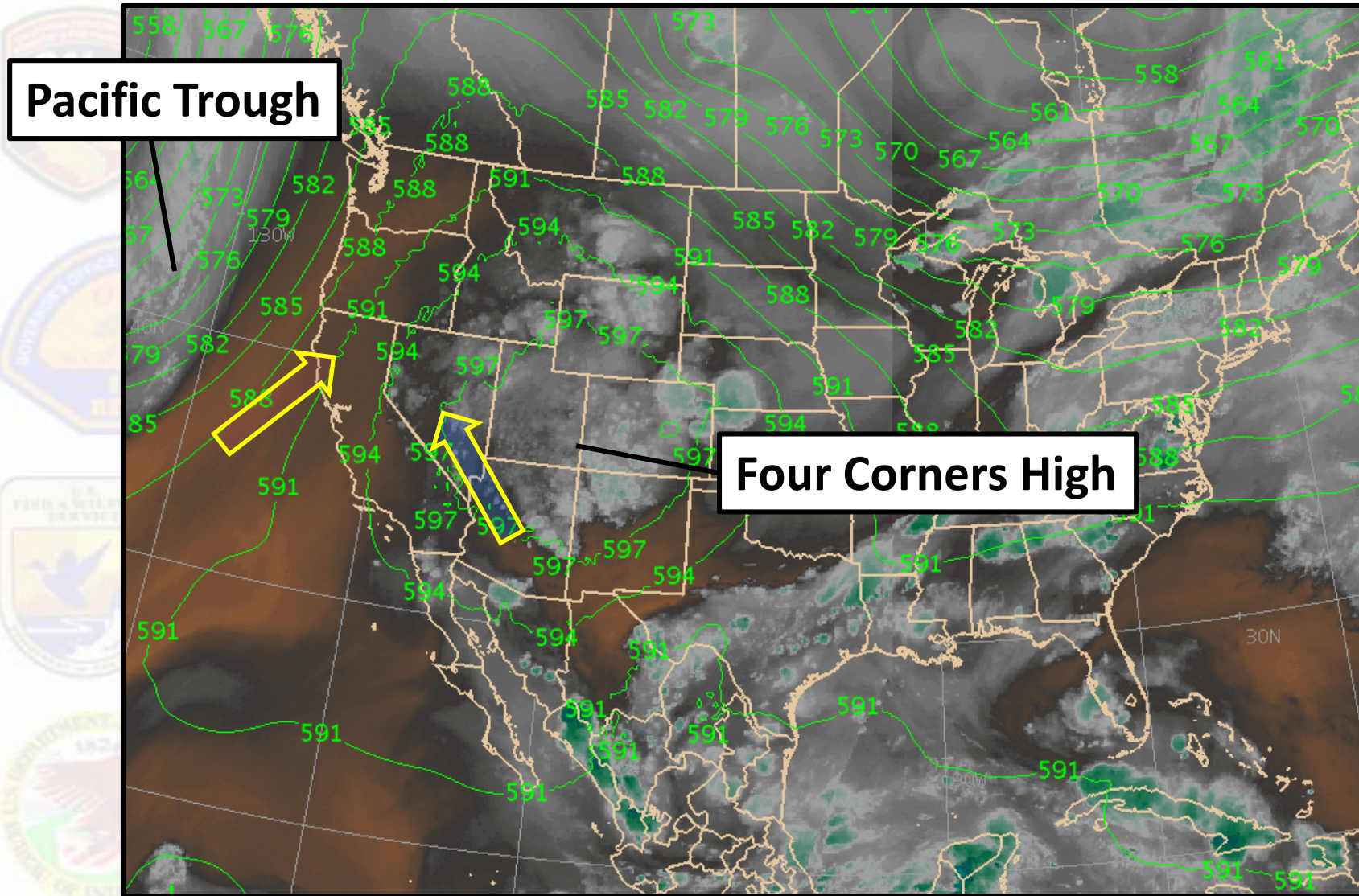
Average of last 48 forecasts (12 runs x 4 members)

Init: 06z Jun 24 2018 through 00z Jun 27 2018

TROPICALTIDBITS.COM



Real Life Example Four Corners High



North Ops Fire Potential Outlook



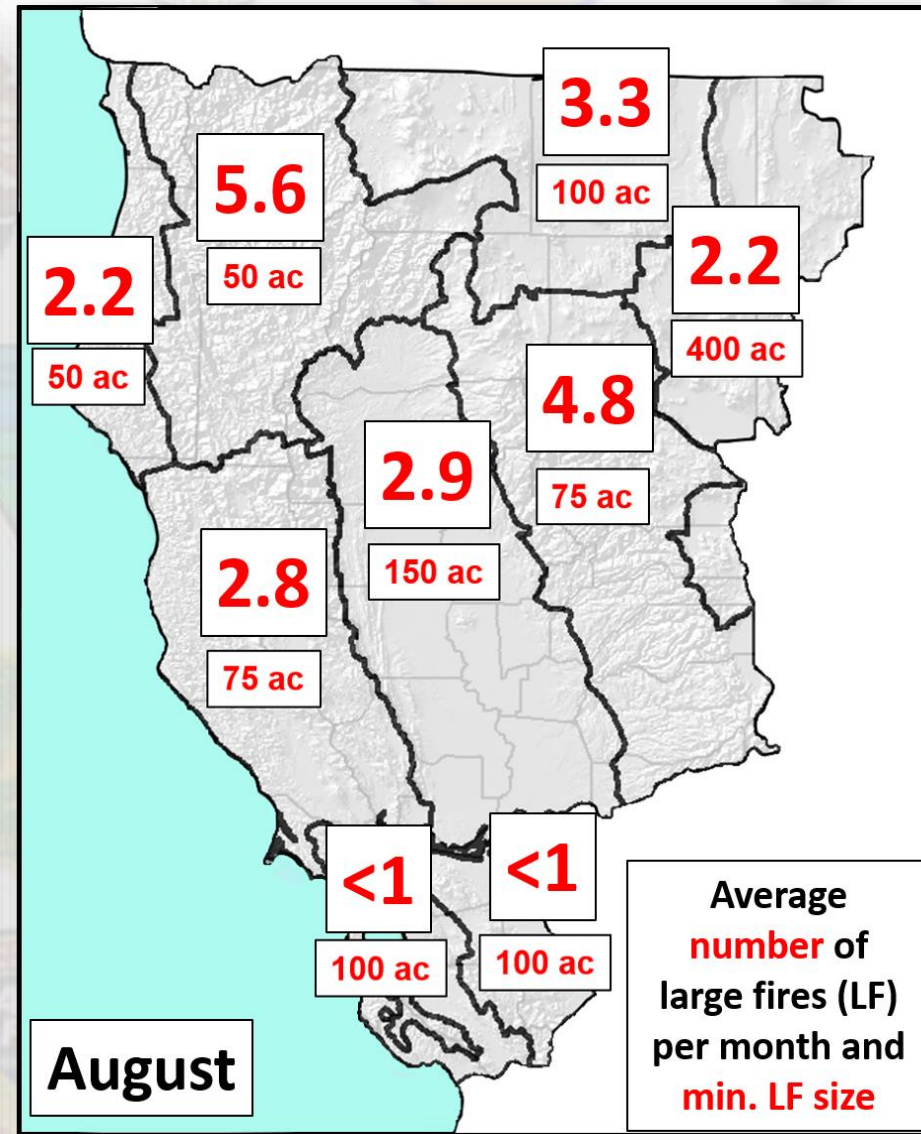
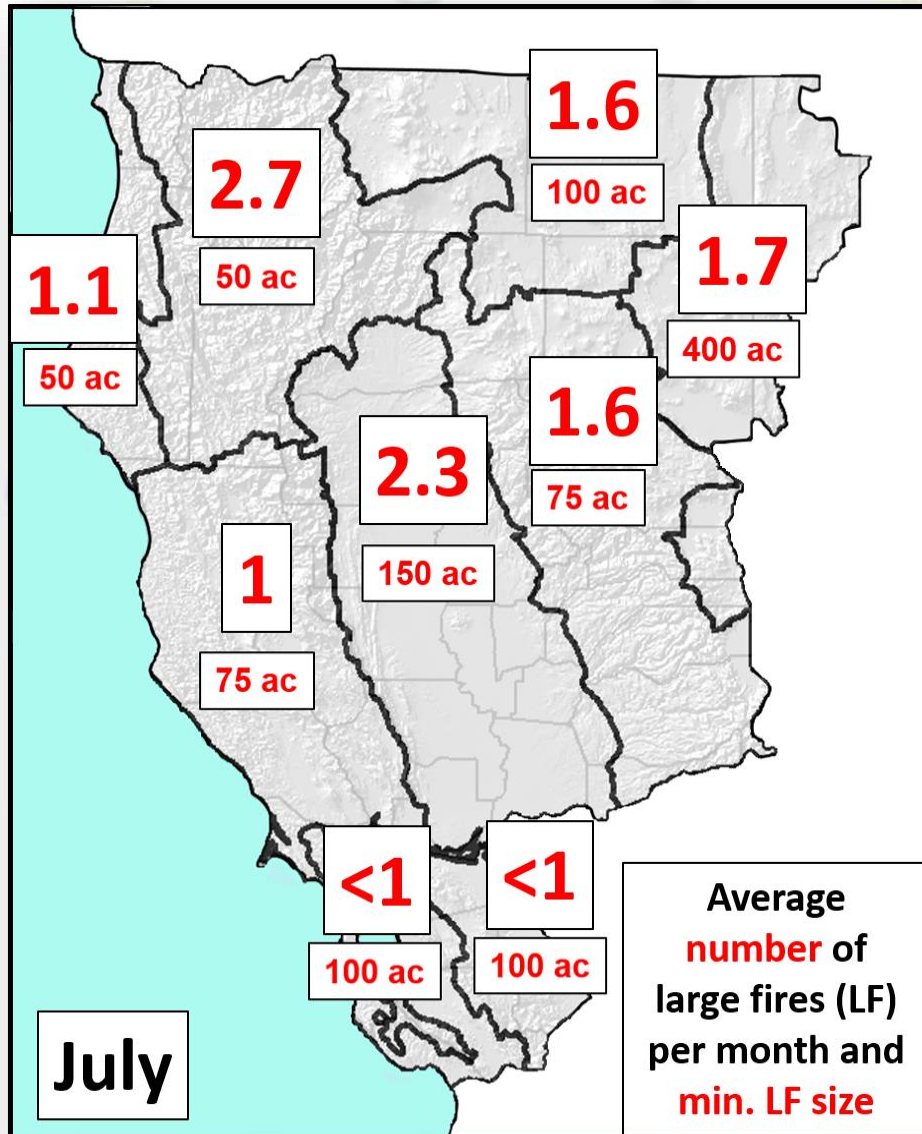
CAVEAT To Seasonal Outlooks

Short-term weather-impact patterns crucial for large fire development & events (e.g. lightning, strong N/Offshore winds, heatwaves) are not foreseeable more than 1-2 weeks out and remain wildcards

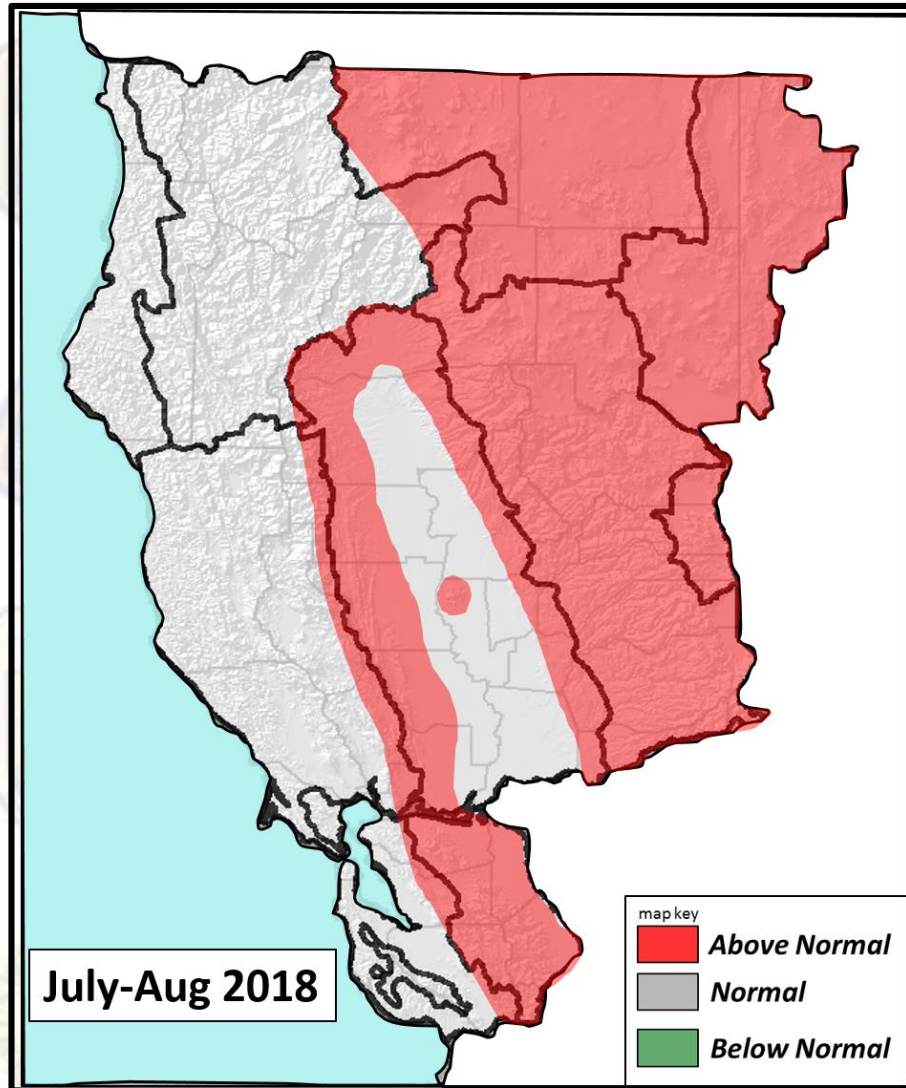
Devil is in the details



North Ops July and Aug- Avg LFs and Ac.



North Ops July-Aug 2018 Outlook



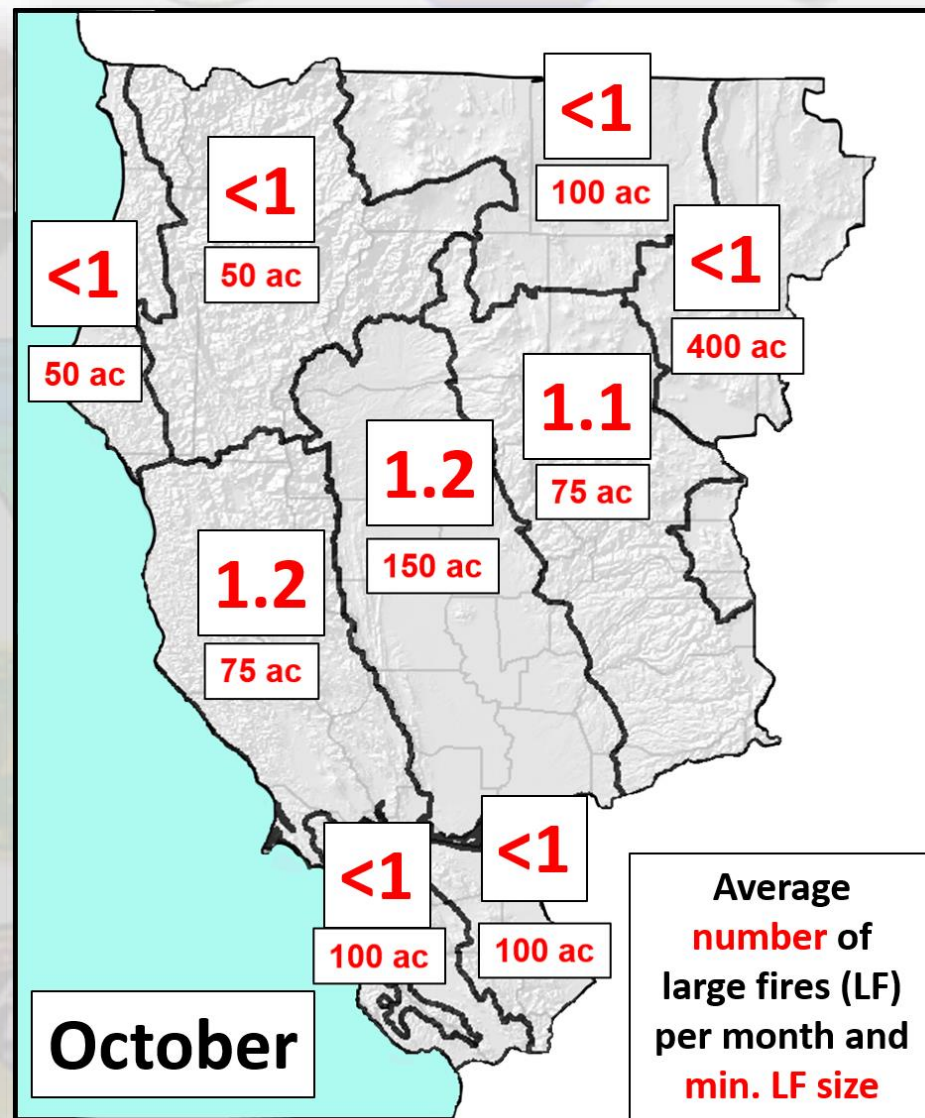
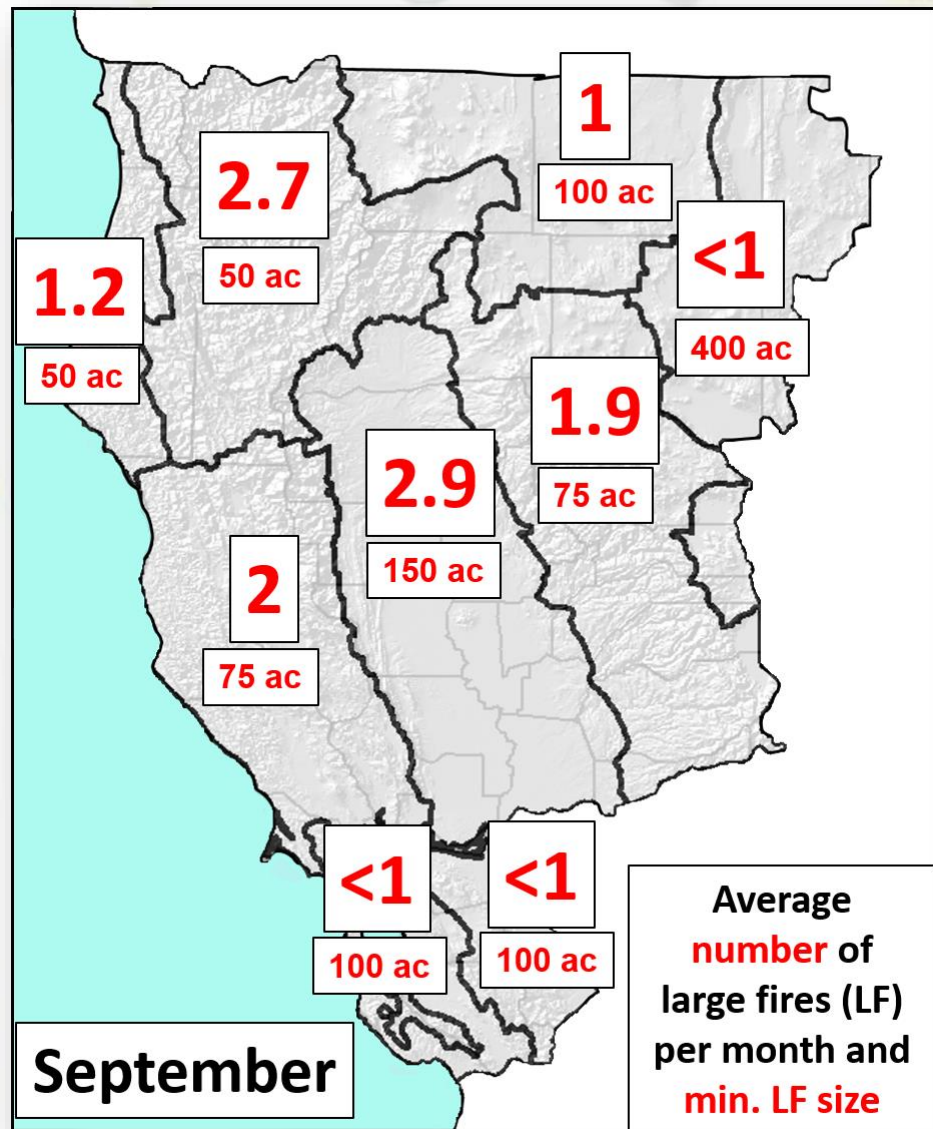
July-Aug Highlights For N Ops:

Above Normal Significant Fire Potential foothills of Sacramento Valley, East Bay Area, NE CA, Far East Side and Northern Sierra PSAs. Normal elsewhere.

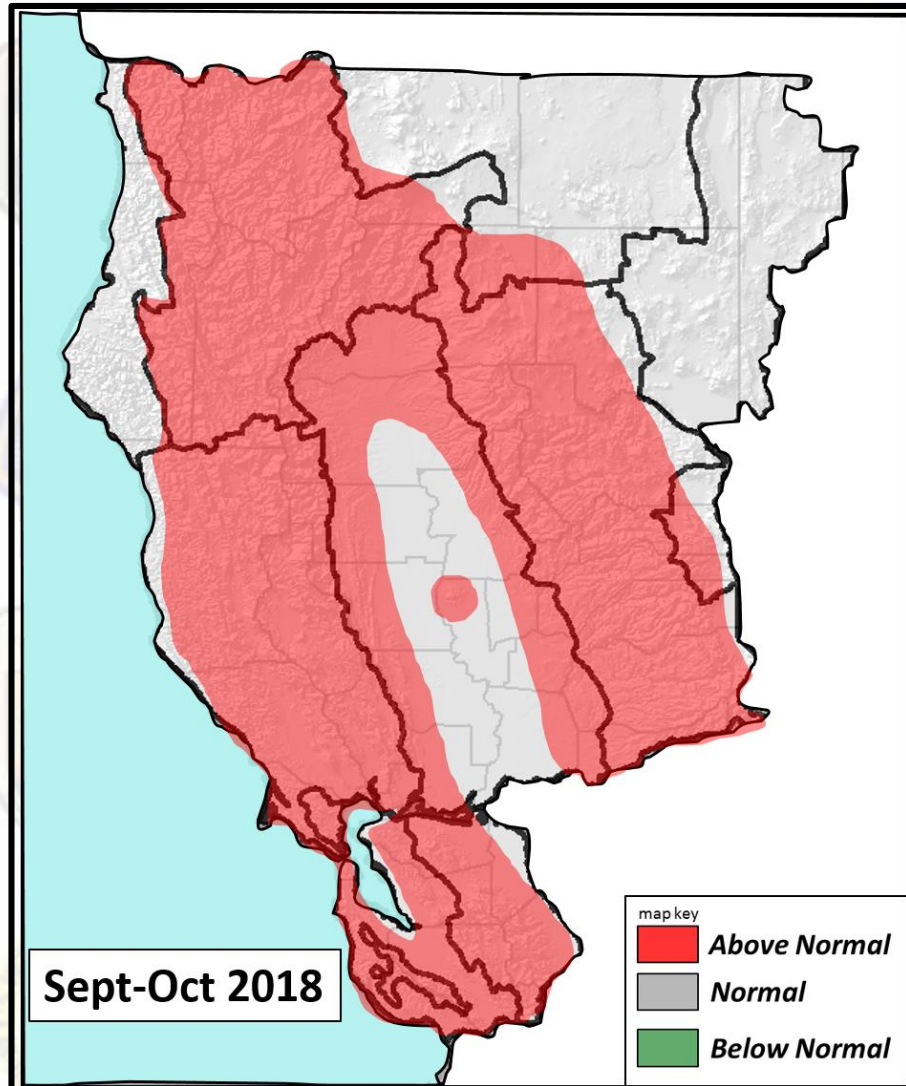
Lightning events favoring E areas

Critically low fuel moisture values plus above normal fine fuel loading and higher elevation mortality provides elevated threat of large fire

North Ops Sep and Oct- Avg LFs and Ac.



North Ops Sep-Oct 2018 Outlook



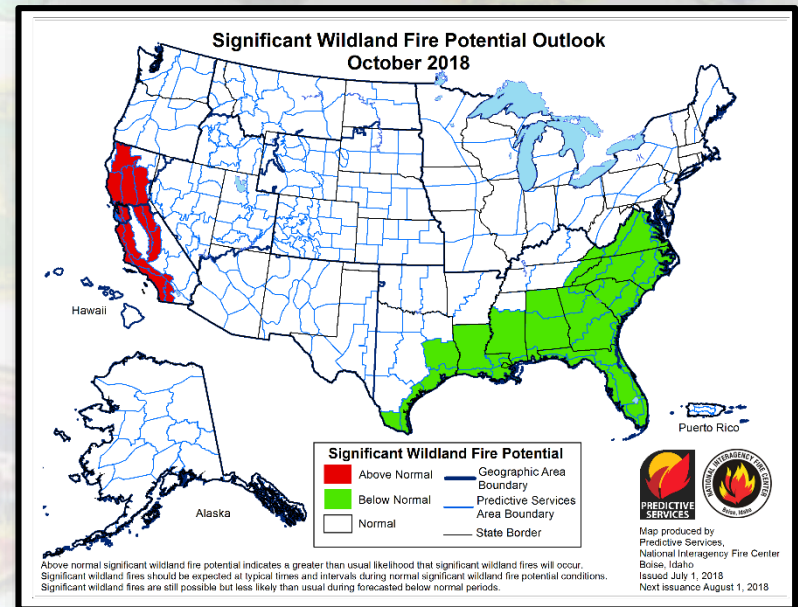
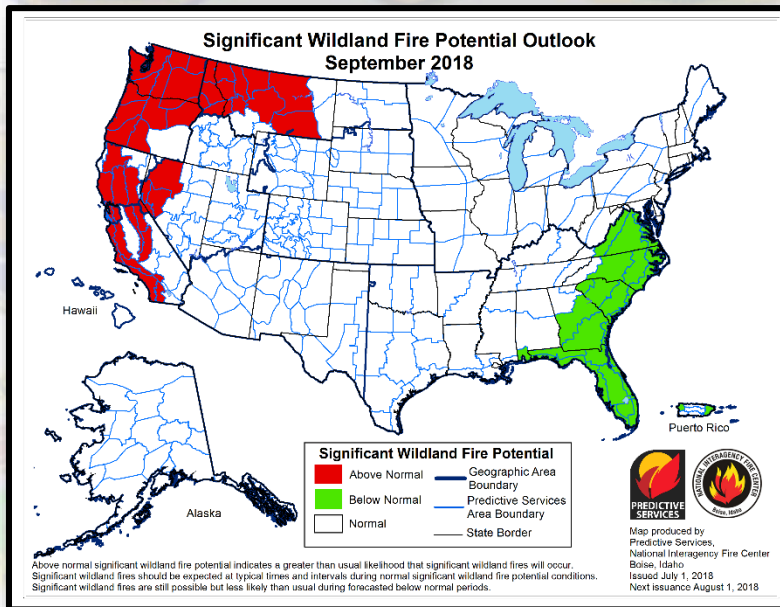
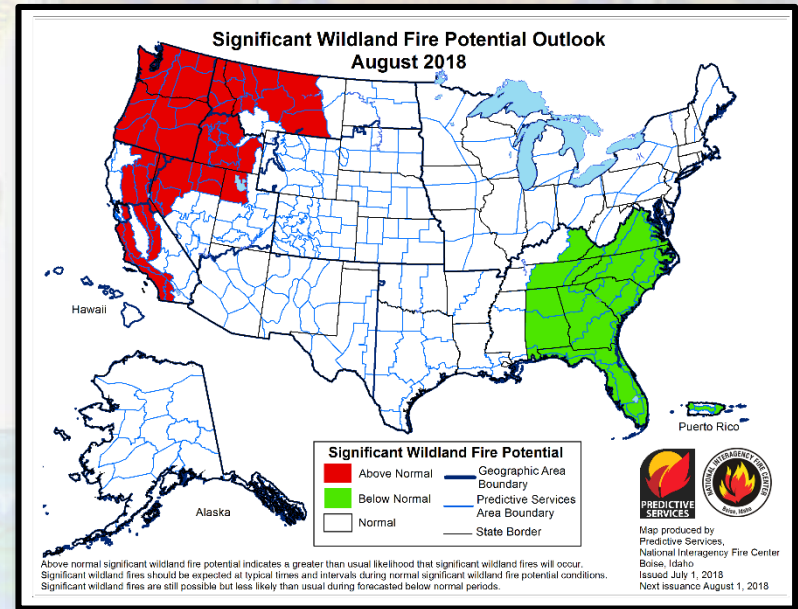
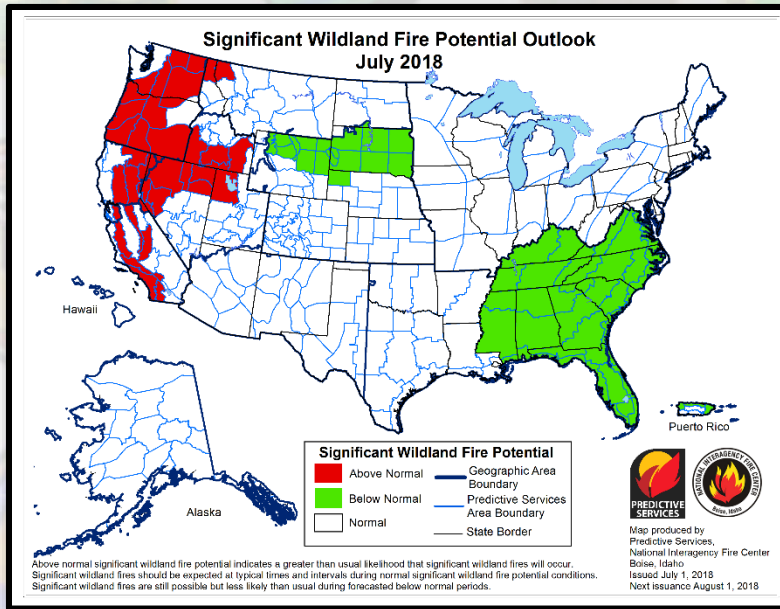
Sep-Oct Highlights For N Ops:

Above Normal Significant Fire Potential foothills of Sacramento Valley, Bay Area, NW CA, Mid Coast-Mendocino, Northern Sierra PSAs. Normal elsewhere.

Critically low fuel moisture values at times coupled with abundant fine fuels and some cold frontal passages

Lightning ignitions remain a distinct possibility, esp Sep

Significant Fire Potential Nationally





End

Questions? 530-226-2730